



A global vision to revolutionize air traffic management

A commitment to...

- Making flying even safer and more secure
- Dramatically reducing congestion and delays
- Keeping aviation affordable and accessible for all users
 - General aviation
 - Business
 - Commercial
 - Military
- Supporting existing initiatives around the globe



Boeing is committed to this vision

- Sustaining \$35 billion annual commercial aircraft business
- Developing partnerships and capabilities
- Excelling at requirements—driven system integration
- Exploring new forms of doing business with governments and air traffic service providers
- Working together with partners worldwide











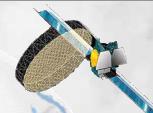




Vision: Revolutionary architecture

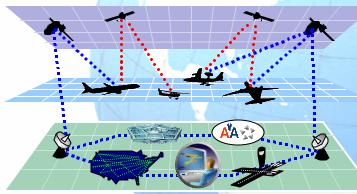


Trajectory-based airspace management

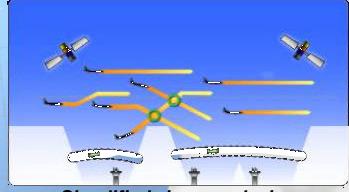


Space-based communication, navigation, and surveillance

Integrated total system solution



Common Information Network

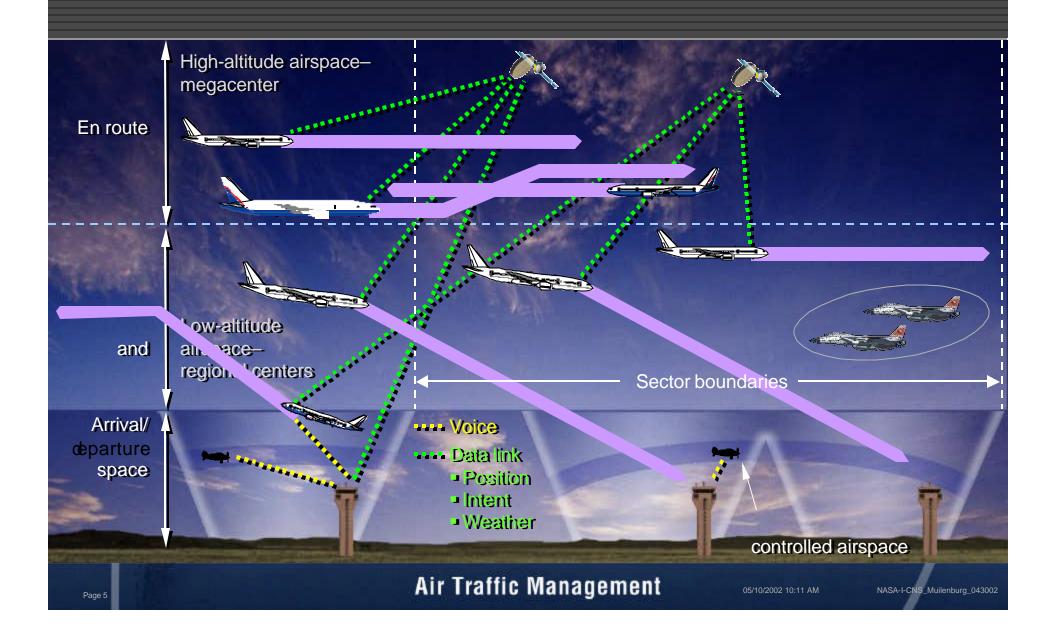


Simplified airspace design

- "Layered" security approach
- Open system principles—growth for the future
- Phased transition plan—builds on existing plans

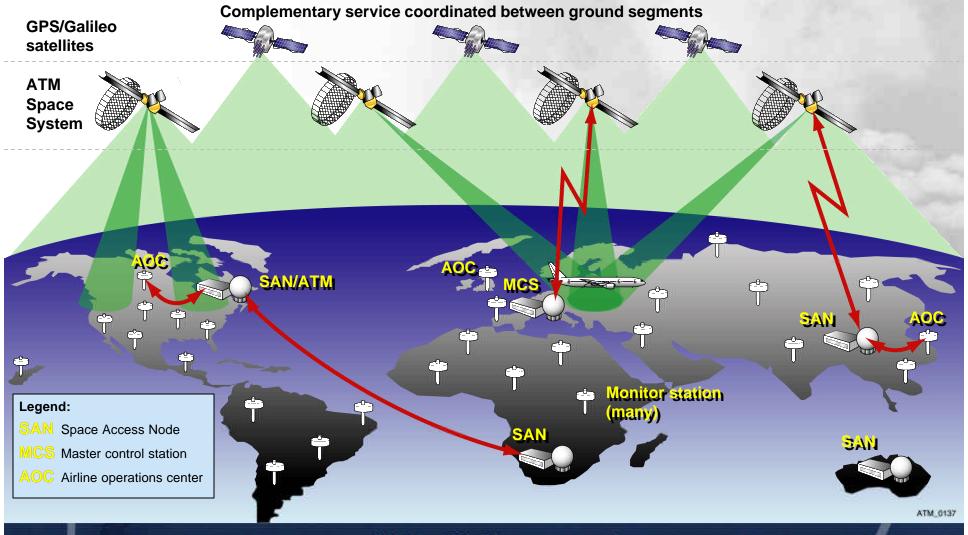


ATM system design



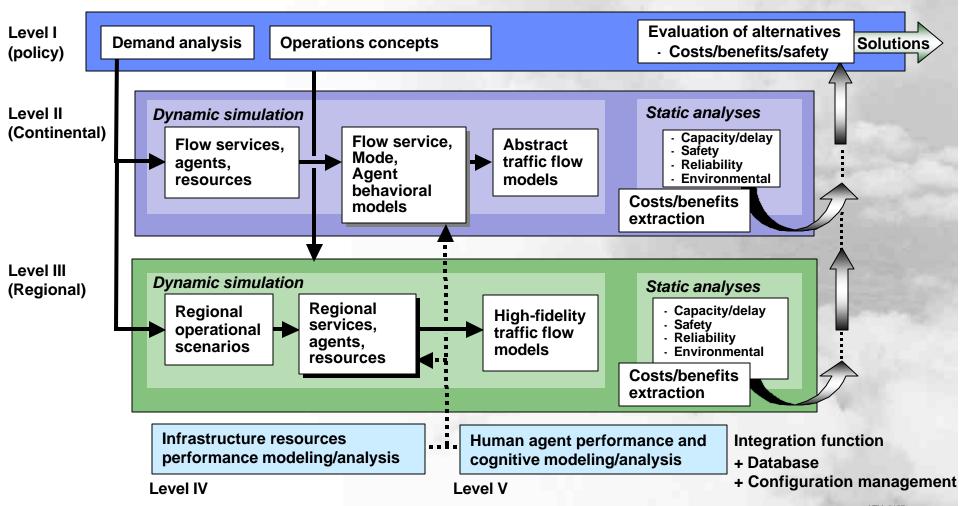


Global communication, navigation and surveillance system architecture



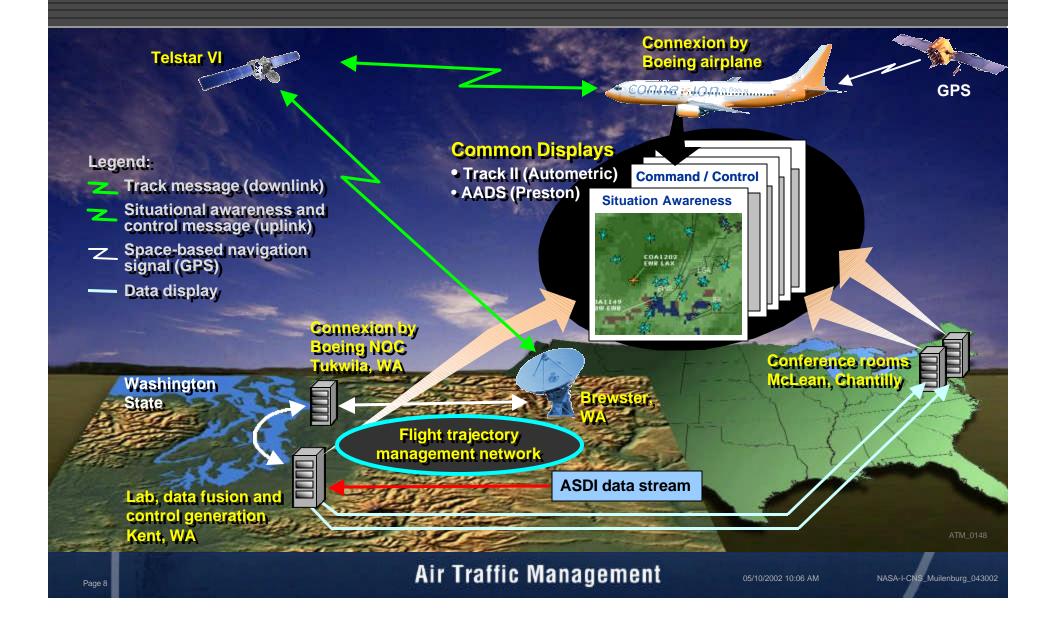


An integrated airspace simulation tool set



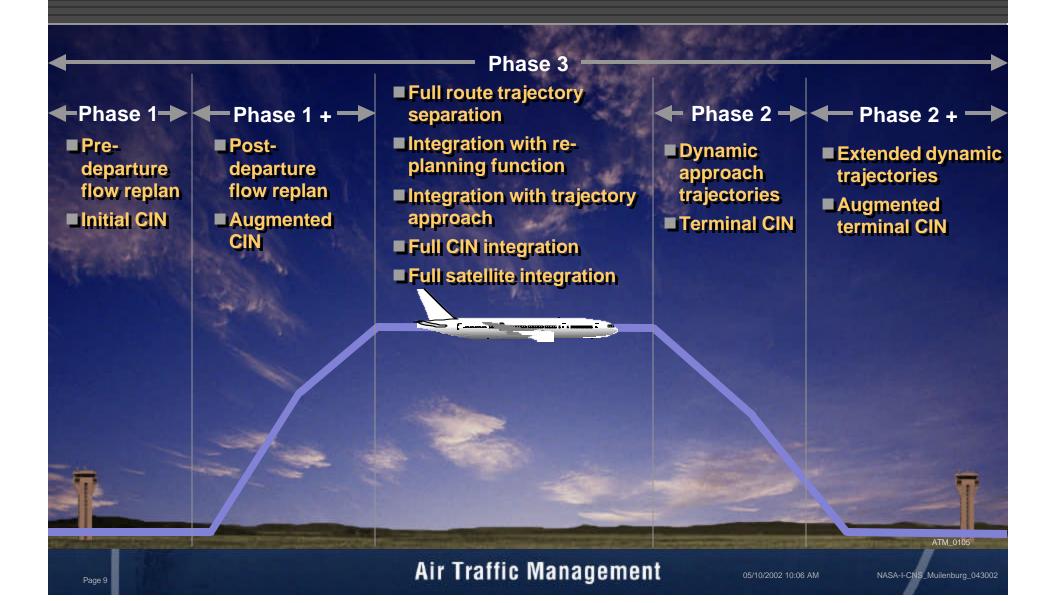


Demonstration overview





Transition strategy



(BOEING

Working Together Team Phase 1 Participants

Suppliers (7)

- Airbus
- Boeing
- GAMA
- Lockheed-Martin
- MIT Lincoln Labs
- Raytheon
- Thales

Support/Policy (6)

- European Commission
- MITRE
- NASA
- RTCA
- ICAO
- Volpe

Commercial Carriers (16)

- ADF
- ALPA
- ATA
- CAA
- IATA
- RAA
- Alaska
- American
- Continental
- Delta
- FedEx
- Northwest
- Southwest
- United
- UPS
- US Airways

General Aviation (2)

- AOPA
- NBAA

Service Providers (7)

- AAAE
- ACI
- ARINC
- Eurocontrol
- FAA
- NATCA
- SITA

Military (1)

DOD

39 stakeholders





Working Together

Phase 1
Working
Together
(Completed)

U.S.

European / North Atlantic Working Together team

Phase 2
Working
Together

- **Working Together team**
 - Identify cornerstone system performance requirements

System Performance Requirements Document

(39 stakeholders)

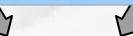
- Stakeholder needs and priorities
- Gap analysis of cornerstone requirements
- Operational concept





Gather input from Asia; other regions

Phase 3 and beyond Working Together



Design modernized Air Traffic Management System that meets stakeholder needs

Working Jogether

